

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Zahm et al.

Serial No.: 09/585,192

Filed: June 1, 2000

For: METHODS AND APPARATUS FOR MEASURING
NAVIGATIONAL PARAMETERS OF A LOCOMOTIVE

Art Unit: 3661

Examiner: B. Broadhead

4-9-02

AMENDMENT

Assistant Commissioner for Patents
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Washington, D.C. 20231

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Sir:

In response to the Office Action dated January 2, 2002, please amend the above-identified patent application as follows:

IN THE CLAIMS

1. (twice amended) A method for determining at least one of motion and location parameters of a locomotive, with either end thereof in the lead in the direction of travel of the locomotive, said method comprising the steps of:

providing at least two satellite signal receivers on the locomotive at spaced locations along the length of the locomotive;

determining a set of phase differences between satellite reference signals received by satellite receivers; and

determining an accurate heading of the locomotive using the set of phase differences between the satellite reference signals, wherein the heading represents the direction of travel of the locomotive.

15. (twice amended) An apparatus for determining at least one of motion and location parameters of a locomotive to detect curves and reduce track wear, with either end of